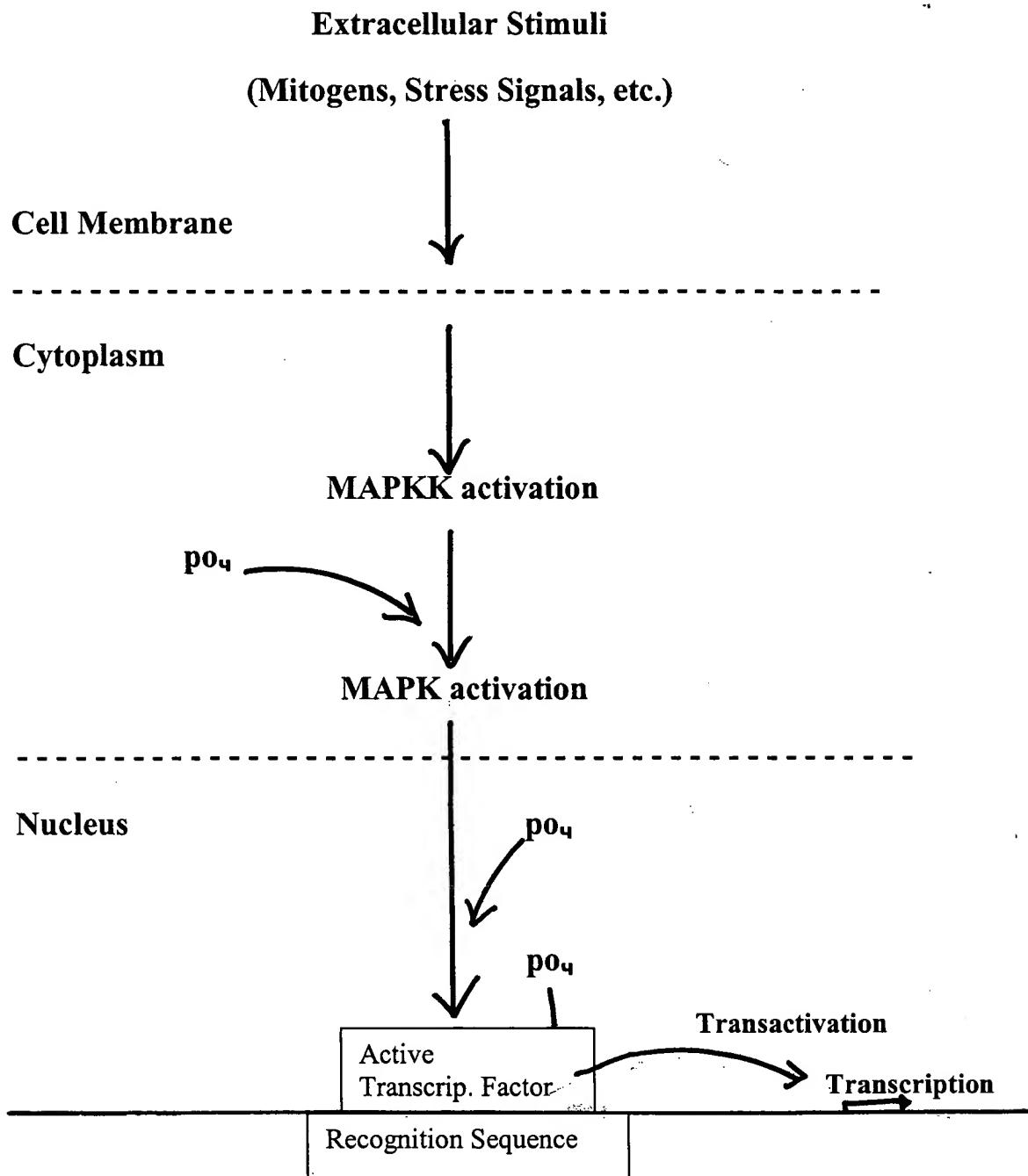




# FIGURE 1

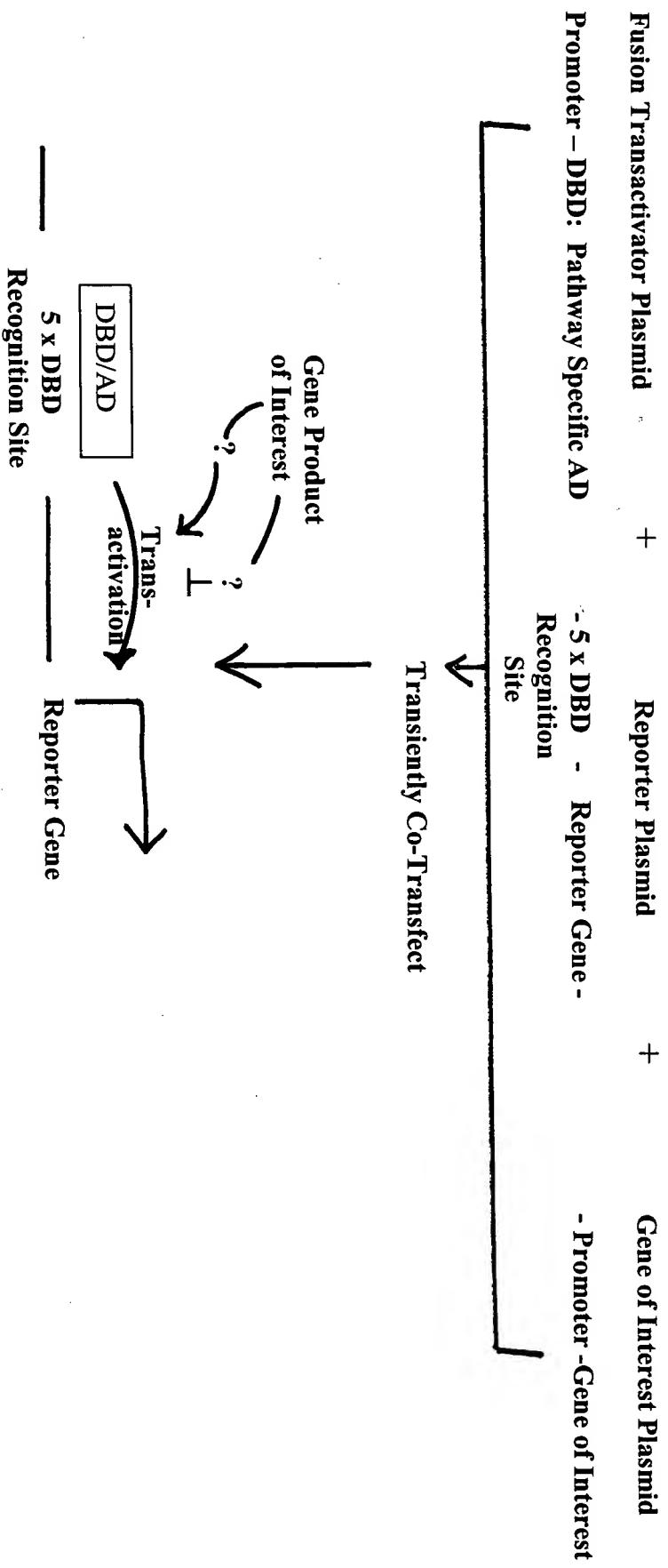
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## FIGURE 2

### Monitoring Pathway-Specific Signal Transduction





## FIGURE 3

### Selection of Stable Reporter Cell Lines

Reporter Construct (w/linked DBD element)



Stably transfect



Screen for clones with low background  
of Reporter activity and strong  
response to DBD – bearing activator(s)



“Stable Reporter Cell Line”



Stably transfect with fusion  
transactivator plasmid



Screen for clones with strong  
response to pathway-specific  
upstream activator(s)

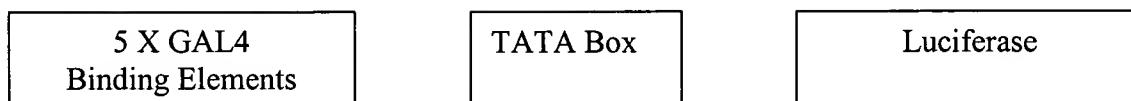


“Pathway-Specific Stable Reporter Cell Line”



## FIGURE 4

### 4.1.1. pFR-Luc Plasmid



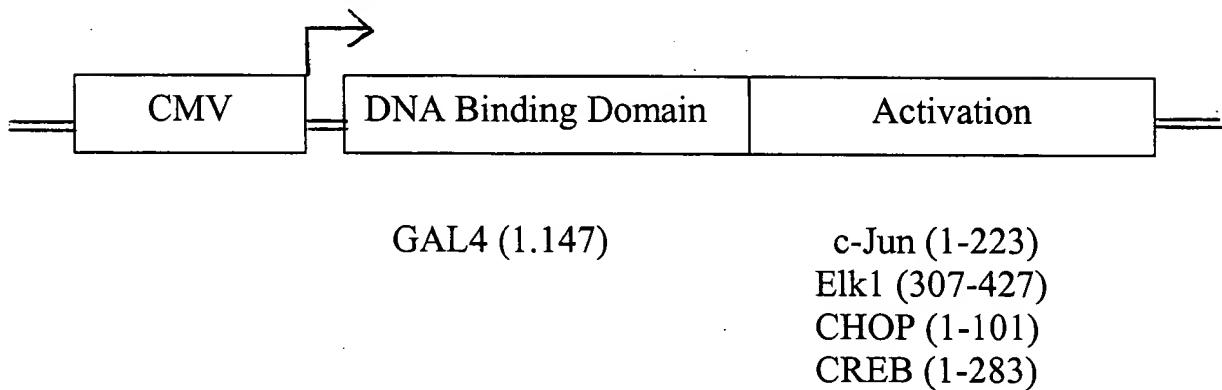
#### *Sequence of GAL4 Binding Element in the pFR-Luc Plasmid*

GT CGGACTACTGTCCCTCCG AG CGGAGTACTGTCCCTCCG SEQ ID NO:9  
AG CGGAGTACTGTCCCTCCG AG CGGAGTACTGTCCCTCCG SEQ ID NO: 10  
AG CGGAGTACTGTCCCTCCG AG CGGAGACTCTAGAGGG SEQ ID NO: 11  
TATATAATGGATCCCCGGGT AC CGAGCTCGAATT - - SEQ ID NO: 5  
--CAGCTTGGCATTCCGGTACTGTTGGTAAATG--Luciferase SEQ ID NO: 6



## FIGURE 5

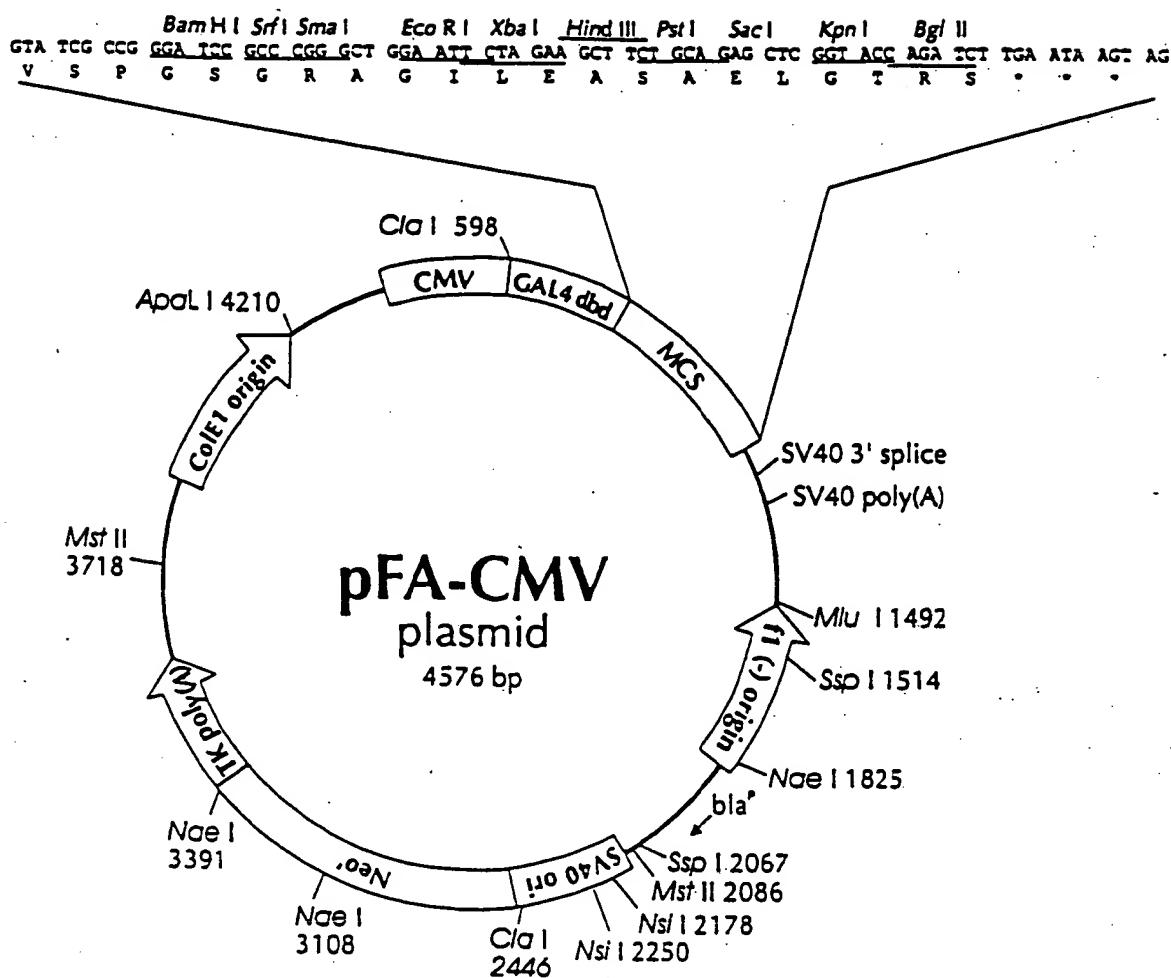
#### 4.1.2. Fusion Transactivator Plasmids





## FIGURE 6

#### 4.1.4. pFA-CMV Plasmid



## 4.2 Preparation of medium and reagents

### **Luciferase Assay Reagent (1 x)**

40.0 mM trucube (pH 7.8)  
0.5 mM ATP  
10 mM MgSO<sub>4</sub>  
0.5 mM EDTA  
10.0 mM DDT  
0.5 mM coenzyme A  
0.5 mM Luciferin

### Cell Lysis Buffer (5 x)

40 mM tricine (pH 7.8)  
 50 mM NaCl  
 2 mM EDTA  
 1 mM MgSO<sub>4</sub>  
 5 mM DTT  
 1% Triton® X-100



## FIGURE 7

### 4.1.3. Control Plasmids

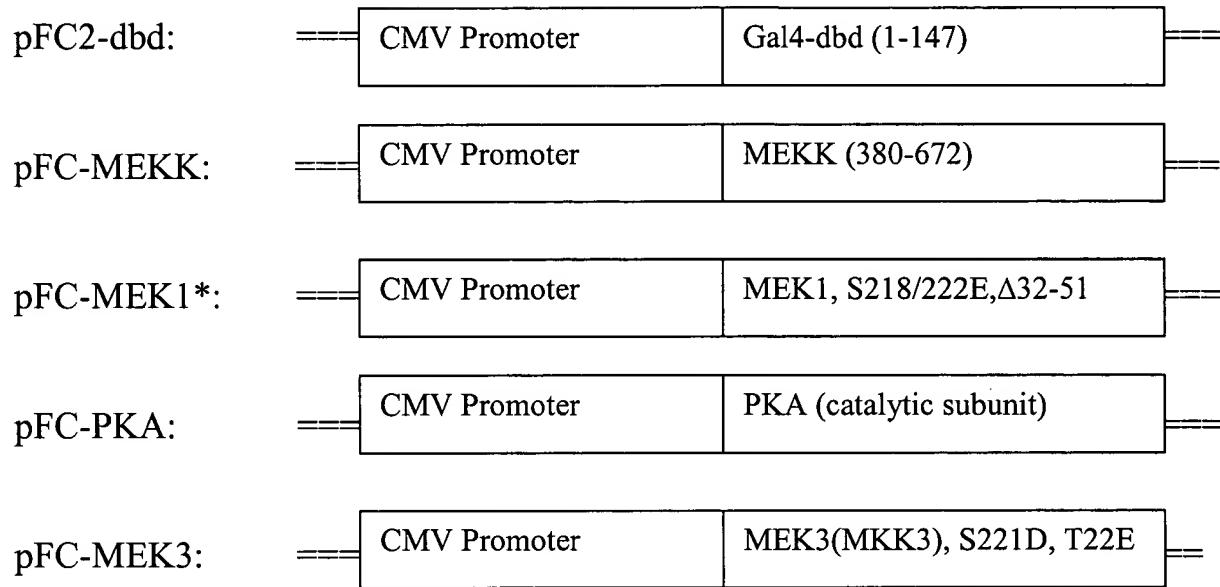




FIGURE 8

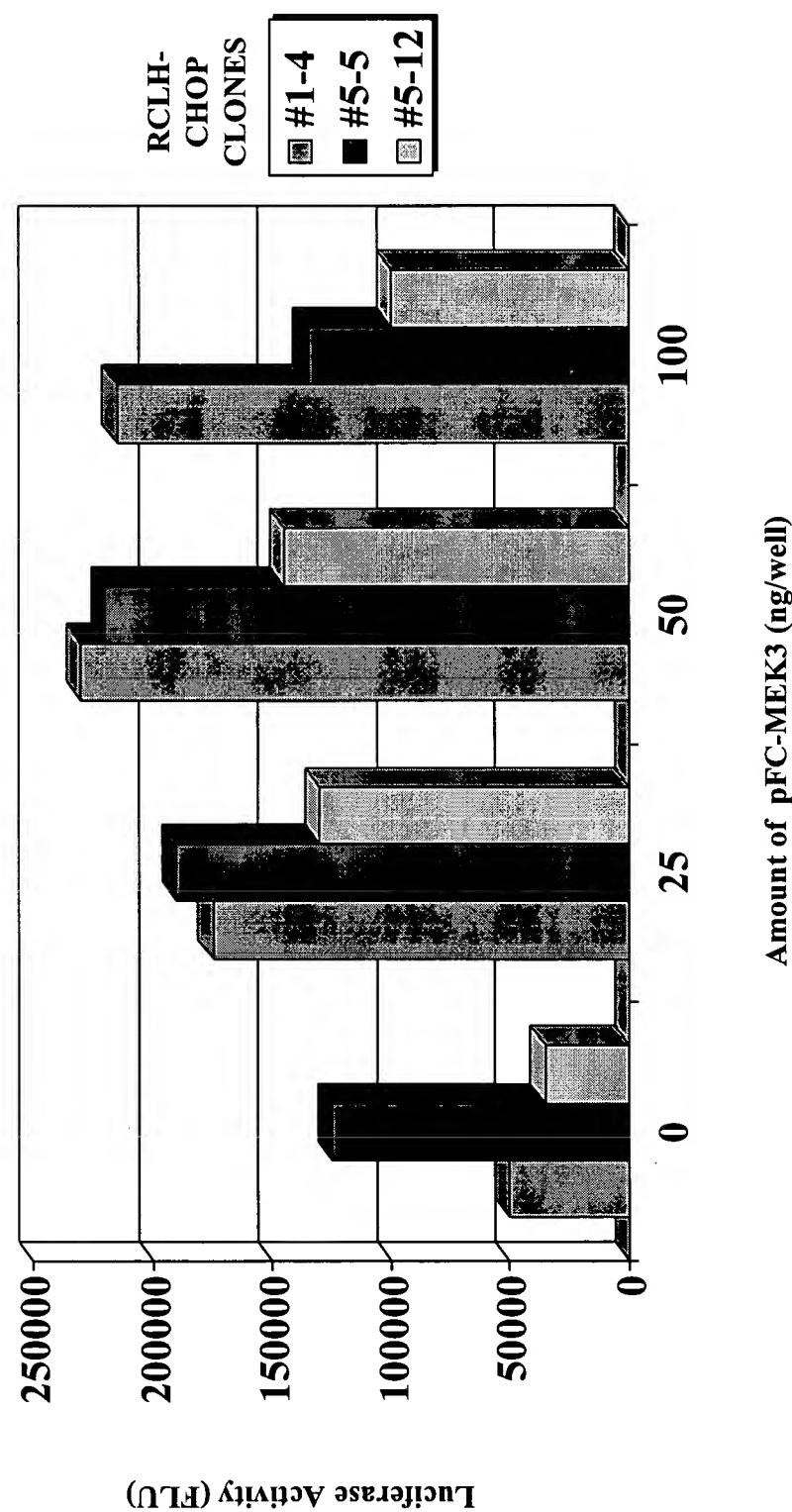




FIGURE 9

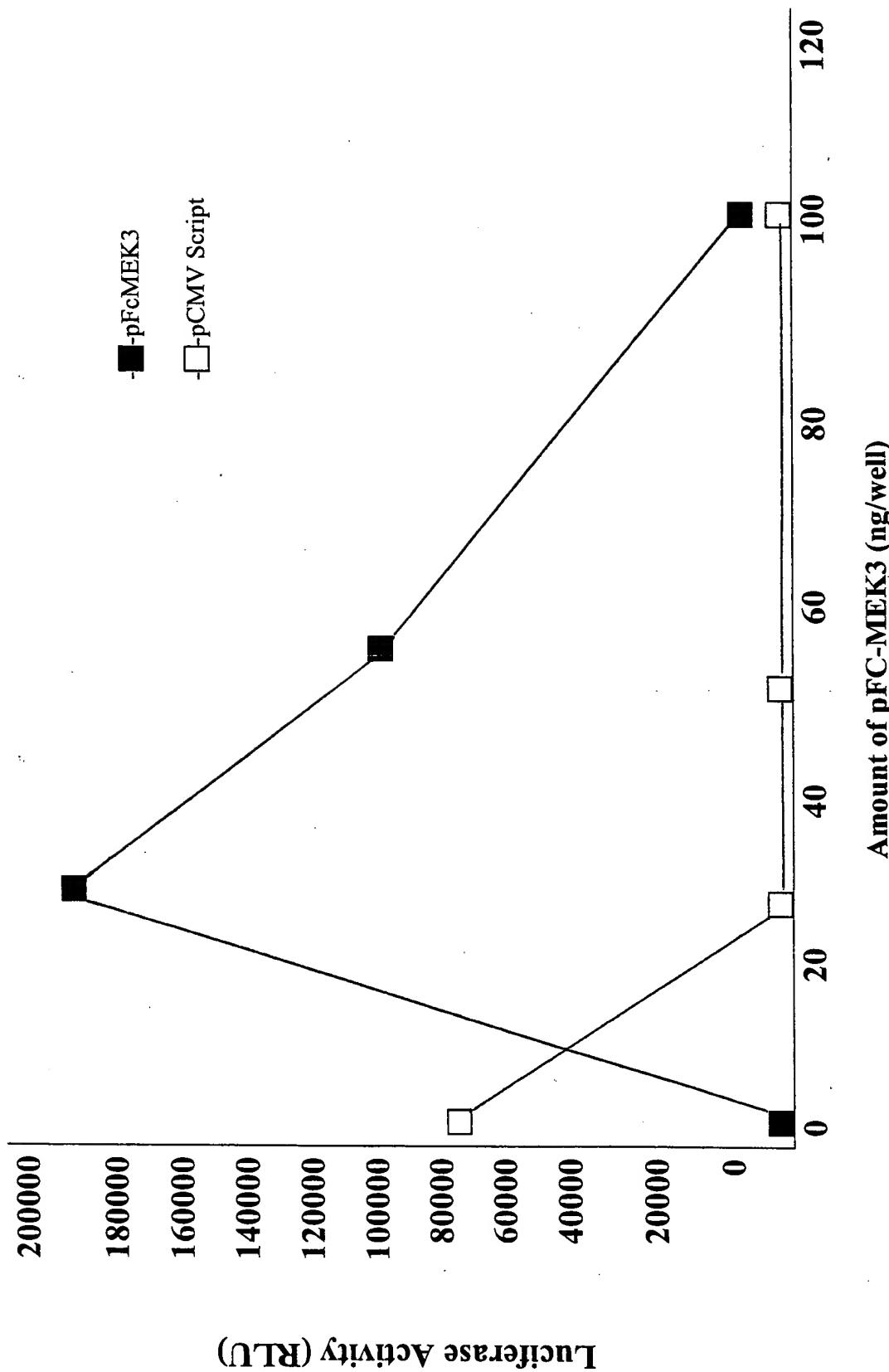




FIGURE 10

